WZE - 3

Instruction Manual

As of: July 2008

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2. Safety Instructions and Legal Disclaimer

2.1. Safety instructions

The WZE has been thoroughly tested for quality of workmanship and operating functions before leaving the factory.

To ensure optimal performance, it is essential that you aquaint yourself with this instruction manual and that you follow the operating instructions described.

Warning signs

Possible risk of injury or damage to equipment.

This symbol indicates the risk of electric shock or fire danger that could result in injury or equipment damage.

General safety instructions

Read and understand all safety and operating instructions before you operate or install the system.

Retain all safety and operating instructions for future reference.

Heed all warnings on the system and in the safety and operating instructions before you operate or install the system.Follow all installation and operating instructions.

Do not use accessories or attachments not recommended by ARRI, as they may cause hazards and void the warranty.

Do not repair any part of the system. Repairs must only be carried out by authorized ARRI repair shops.

Do not remove any safety measure of the system.

Do not operate the system in high humidity areas or expose it to water or moisture.

Do not place the system on an unstable cart, stand, tripod, bracket, or table. The system may fall, causing serious personal injury and damage to the system or other objects.

Operate the system using only the type of battery indicated in the manual.

Do not use solvents to clean.

Any violation of these safety instructions or the non-observance of personal care could cause serious injuries (including death) and damages on the system or other objects.

Note: *Notes are used to indicate further informations or informations from other instruction manuals.*

⇨ **image** indicates objects which are shown in the illustration.

Product Identification

When ordering parts or accessories, or if any questions should arise, please advise your type of product and serial number.

2.2 Disclaimer

Before using the products described in this manual be sure to read and understand all respective instructions. The ARRI Wireless Lens Control System is only available for commercial customers. The customer grants by utilization, that the ARRI Wireless Zoom Extension Unit (WZE-3) or other components of the system are only deployed for commercial use. Otherwise the customer has the obligation to contact ARRI preceding the utilization.

While ARRI endeavors to enhance the quality, reliability and safety of their products, customers agree and acknowledge that the possibility of defects thereof cannot be eliminated entirely. To minimize risks of damage to property or injury (including death) to persons arising from defects in the products, customers must incorporate sufficient safety measures in their work with the system and have to heed the statuted canonic use.

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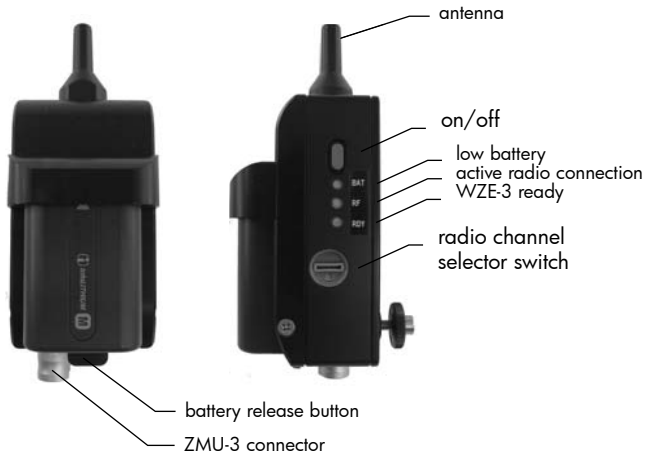
3. General Description

The WZE-3 is the Wireless Zoom Extension unit for the ZMU-3. This unit can be easily attached to the ZMU-3, thus enabling light-weight wireless zoom control in combination with any member of the 3rd generation ARRI Wireless Remote System („Yellow Radio“).

Main features

- Light-weight 1-channel radio unit
- Fits perfectly to the ZMU-3 - no cabling
- Battery power supply for both the WZE-3 and ZMU-3
- fully integrated in the ARRI Wireless Remote Ssytem



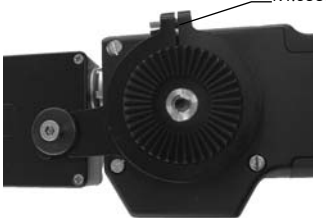
attaching the WZE-3 to the ZMU-3

WZE top view

WZE bottom view (without battery)

05.21430.0 Battery Charger

05.21208.0 Li-Ion Battery



3.1 ARRI Order Numbers

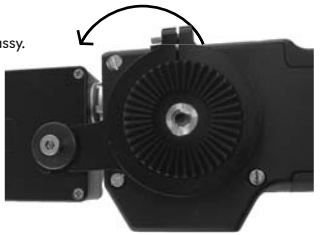
K2.65150.0	Wireless Zoom Extension Unit WZE-3
K4.65860.0	ZMU-3 Bracket assy.
05.21208.0	Li-Ion Battery 7,2V 11.8Wh
05.21430.0	Battery Charger
05.20368.0	Power Cord EU
05.20369.0	Power Cord UK
05.20370.0	Power Cord US

4. Setup

Attaching the WZE-3 to the ZMU-3

Plug the WZE-3 onto the ZMU-3 and secure the connection using the ZMU-3 bracket ⇨ **photo**.

K4.65860.0 ZMU-3 Bracket assy.



Slide the bracket over the ZMU-3 rosette, rotate it, until the lug hides under the WZE-3's knurled screw. Fasten the bracket on the WZE-3 and use a 3mm hex wrench to secure the bracket on the ZMU-3's rosette edge.

Selecting the radio channel

The radio modem in the WZE-3 utilises a specific scheme of constantly changing frequencies, making the connection between the different radio units very robust against interference. The even channels on the radio channel selector switch (numbers 0, 2, 4, 6) utilize the upper half of the bandwidth (2444 - 2472 MHz) while the odd numbers (1, 3, 5, 7) use the lower frequencies (2406 - 2435 MHz).

To establish a connection between one or more Wireless Main Units (a maximum of three per radio channel is possible), the WZE-3 must be set to the same radio channel as the receiving URM-2/-3, UMC-3, LDB-2 or ARRIFLEX 416 plus (HS).

It is not possible to control two receiving units with one WZE-3.

Note: In case two remote systems with the "-2" or "-3" series modems (yellow antenna washer) are on the same set, it is recommended to set one of the systems to an upper (even) channel and one system to a lower (odd) channel number.

Due to local telecommunications regulations, only certain channels are allowed in some countries. The WZE-3 must be used in odd numbered channels in France.

In all other countries, radio channels from 0-7 may be programmed if there are no local telecommunication restrictions for the 2.4 GHz ISM-band.

- Set the desired channel with the rotary selection knob ⇨ **photo** on the WZE-3.
- Using the selection knob on the LDB (Lens Data Box), the FEM-2, the UMC-3 or ARRIFLEX 416 plus(HS), select the same channel as on the WZE-3.

Selector switch number 9 switches the radio modem off, number 8 is reserved for special purposes.

Quality of the radio connection

The RF-LED ⇨ **photo** (page 10) shows whether the quality of the radio transmission is sufficient. As long as the RF-LED is green, the radio connection is perfect. If the LED is illuminated briefly red, this means that a data packet has been lost. The packet is cyclically transmitted and the lens adjustment is still correct.

If the LED lights up red several times briefly, or continuously, it must be assumed that lens adjustment is no longer being performed correctly. If the LED flashes red, the radio connection has been interrupted for longer than a second.

The radio connection is best when there is visual contact between the antennas of the LDB, UMC-3, URM-2/-3 or ARRIFLEX 416 Plus(HS) and the WZE-3 is as small as possible. The maximum range inside buildings depends on the particular building and is typically approx. 30m. Outdoors the range is approx. 100m.

5. Operation of the WZE-3

Slide-in the battery into its compartment. Switch-on the WZE-3 using the blue „on/off“ button.
The unit tries to connect to a corresponding radio unit.
If ok, both the „ready“ and „RF-active“ LEDs glow green after a few moments. If not, check the following table:

LED	signal	description	solution
rdy RF	green red	RF connection disturbed or interrupted	remove other radio controlled devices from the set, change radio channel from odd to even numbers or vice versa
rdy RF	red green	Radio connection ok, but no or bad connection to ZMU-3	check connectors on WZE-3 and ZMU-3
rdy RF	red dark	no radio connection	check, if the corrsponding radio unit is active* check radio units for corresponding channels replace antenna on corresponding radio units*+

* UMC-3, URM-2/-3, ARRIFLEX 416 PLUS(HS).
+The antenna on the WZE-3 is not user replacable

Battery maintenance

The following batteries are recommended for use with the WZE-3:

SONY NP-FM Series (e.g. NP-FM 500H)

Recommended Charger:

SONY BC-VM50

For safety purposes do not use other than the recommended charger and battery types.
Please also take note of the following directives for battery handling:

Do not incinerate

Do not expose to temperatures beyond -20 to +50°C (-4 to +122°F)

Do not disassemble

Re-charge the battery, if the „bat“ LED on the WZE-3 lights up.

The charger must be used indoor only. Do not expose it to humidy or high temperatures.

Note: *For achieving full battery capacity, leave the . battery about one hour in the charger after .. the charge LED has gone out.*

From time to time discharge and re-charge the battery completely to maintain full long-term capacity.

Defective batteries must not be thrown into domestic waste, but disposed of onshore in a safe manner consistent with all applicable regulations.

6. Specifications

Operating temperature
-20 to +50 °C (-4 to +122°F)

Operating voltage
7.2V Li-Ion battery

Typ. current consumption
230mA @ 7,2V with ZMU-3
125mA @ 7,2V without ZMU-3

Dimensions (h * w * d) w/o (with) antenna&plug
95*50*49mm (137*50*49mm)
3.74*1.97*1.93in (5.4*1.97*1.93in)

Weight
215g (7.6oz) complete with bracket assy.
(without battery)

Declaration of Conformity

We, Manufacturer
ARRI CINE + VIDEO GERÄTE GmbH
Mariahilfer Strasse 136
A-1150 Wien
declare that the product
Wireless Zoom Extension Unit

WZE-3

is in conformity with

DIN EN 55103-1: 1997-06
DIN EN 55103-2: 1997-06
DIN EN61000-3-2: 2006-10
DIN EN61000-3-3: 2006-06
DIN EN 60065: 2003-01

DIN EN 55022: 2003-09 Class B

DIN EN61000-4-2: 2001-12
DIN EN61000-4-3: 2003-11

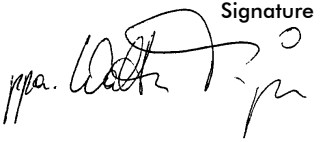
additional Certifcation of built in RF-modem AC4424I-100

EN 300 328-1 V1.3.1: 2001-12
EN 300 328-2 V1.2.1: 2001-12

EN 301 489-1 V1.3.1: 2001-09
EN 301 489-17 V1.1.1: 2000-09
FCC Rule Parts 15 C

Date:
2008-07-07

Signature



Ing. Walter Trauninger

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technical data are subject to change without notice

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